

## INTERNATIONAL SEARCH REPORT

Inte  
rnal Application No  
PCT/US2004/042663

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N29/02 G01N29/22 G01N29/24 H01L41/047 H03H9/05 H05K3/32 H01L21/60

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N H01L H03H H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 287 894 B1 (SAWIN RAYMOND L) 11 September 2001 (2001-09-11) abstract; claim 1; figures 1-5 column 1, line 5 - column 6, line 20	1-3, 5-7, 19-23 4, 8-18
X	US 6 556 105 B1 (NGUYEN NGOC-TUAN ET AL) 29 April 2003 (2003-04-29) abstract; claim 1; figures 3a-8 column 2, line 54 - column 4, line 67	1-3, 5-7, 19-23 4, 8-18
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10, 31 October 1997 (1997-10-31) & JP 09 162693 A (KOKUSAI ELECTRIC CO LTD), 20 June 1997 (1997-06-20) abstract	1-3, 5-7, 19-23 4, 8-18
A		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search

10 June 2005

Date of mailing of the International search report

16/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5010 Patentaen 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Uttenthaler, E

## INTERNATIONAL SEARCH REPORT

Inte  
onal Application No  
PCT/US2004/042663

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 840 369 A (KABUSHIKI KAISHA TOSHIBA) 6 May 1998 (1998-05-06) abstract; figure 8 page 51, line 13 - page 52, line 28 page 77, line 6 - line 31	1,19
A	WO 03/098206 A (FORSCHUNGSZENTRUM KARLSRUHE GMBH; RAPP, MICHAEL; VOIGT, ACHIM) 27 November 2003 (2003-11-27) abstract; claim 1; figures 1,2 page 1, paragraph 2 - page 4, last paragraph	8-18
A	RAPP M ET AL: "New miniaturized SAW-sensor array for organic gas detection driven by multiplexed oscillators" SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 65, no. 1-3, 30 June 2000 (2000-06-30), pages 169-172, XP004208629 ISSN: 0925-4005 the whole document	8-18
A	DU J ET AL: "Love wave acoustic immunosensor operating in liquid" SENSORS AND ACTUATORS A, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 61, no. 1-3, June 1997 (1997-06), pages 279-286, XP004092233 ISSN: 0924-4247 the whole document	8-18

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No  
PCT/US2004/042663

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 6287894	B1 11-09-2001	NONE		
US 6556105	B1 29-04-2003	FR 2789822 A1 CA 2362736 A1 CN 1340240 A ,C DE 60006365 D1 DE 60006365 T2 EP 1157460 A1 WO 0048313 A1 HK 1044860 A1 JP 2002537669 T		18-08-2000 17-08-2000 13-03-2002 11-12-2003 16-09-2004 28-11-2001 17-08-2000 01-04-2005 05-11-2002
JP 09162693	A 20-06-1997	NONE		
EP 0840369	A 06-05-1998	EP 0840369 A1 US 6262513 B1 CN 1194058 A ,C WO 9702596 A1 US 2002149298 A1 US 2001009342 A1		06-05-1998 17-07-2001 23-09-1998 23-01-1997 17-10-2002 26-07-2001
WO 03098206	A 27-11-2003	DE 10222068 A1 WO 03098206 A1 EP 1504256 A1 US 2005044956 A1		27-11-2003 27-11-2003 09-02-2005 03-03-2005